!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd"> <

- **Please visit the website "www.vigotec.cn" on your computer to downlaod the control software**

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Software Manual

Support : VigoWriter

Powered by VigoTec.

1 . Introduction

VigoWriter is a writing machine control software developed by VigoTec independently. It s text editing , image import and Gcode file. It supports the outline description writing, fill Black-White and gray mode drawing. And it supports the adjustable of writing rate, height o and down in the process of writing.

Supported desktop operating system: Support Win7 and above. (MacOS, XP and earlier are not supported yet.)

2. Install driver

For the first time, please connect the device to the computer by USB cable, a CH341SER.exe to install driver. In general, the Win10 system can automatically identify and in driver and the Win7 and Win8 systems may need to install manually.

3. Running program

When the driver is installed, click to run VigoWriter.

The program will automatically search for the available equipment and connects auto after it is started. Please confirm that the device has been properly connected to the computer

are multiple devices connected to the computer at the same time, please select the correct C

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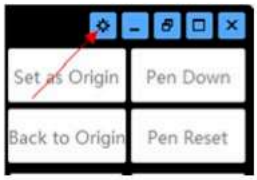
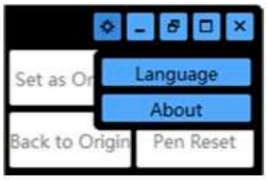
manually. If the connection is disconnected in case, the program will not automatically conne device again. If you want to reconnect, please click **Connect Device** manually.





After opening the program, you can select the language interface. Click on the upp corner of the program, and open the language selection box. You can choose a Chinese or interface and set as default.

After connecting the device, you can select the G code, edit text, picture, or select the p the gallery.

Please note that there will be a more detailed description for some buttons when put mouse on these buttons for a moment !

4.Device Control

Device Control Panel: The device control buttons are on the top right corner of the p After connecting the device, the device can be moved manually along the X axis or Y axi direction buttons. It also can be controlled by the direction keys on the keyboard. The motion can be changed in the middle box (unit: mm). Users can also control the pen up and down **Down** and **Pen Reset**. Please note that these buttons are not available after the start of writin

5.Basic Settings

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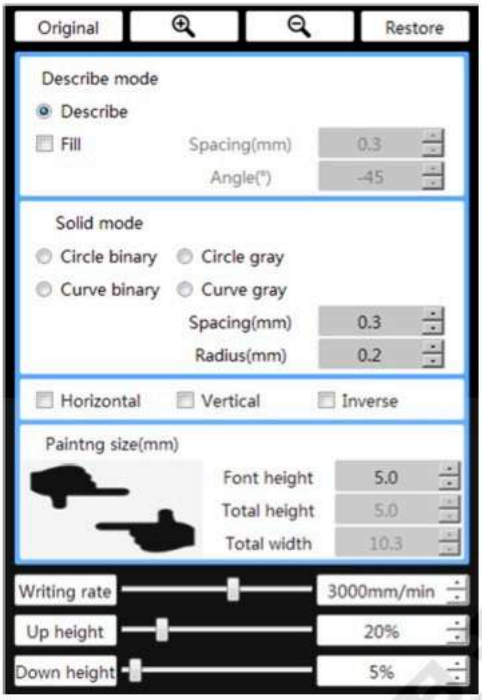

The basic settings are located on the right side of the program.

Original: Display the original image has chosen.

Zoom In Zoom Out Restore: Click these buttons to zoom in, zoom out, and restore the co image.

Describe Mode: Fill the image is optional in this mode, and users can change the spacing angle in fill manually.

Solid Mode: In this mode, users can draw filled painting with circle or curve mo corresponding spacing and radius of circle and curve can be adjusted.

Image Transformation: Provide mirror image and color inverse.

Image Size: Setting the painting size. Text height of single line can be changed in text mode. Total height of painting can be changed in image mode. Total width is just show.

Other Settings:

Writing Rate: The unit of writing rate is millimeters per minute. For the dense case, Note actual speed will be reduced with higher painting point density.

Up height: Set the height of pen up when the device is moving and without writing.

Down height: Set the height of pen down when the device is moving and writing.

6. Text Edit

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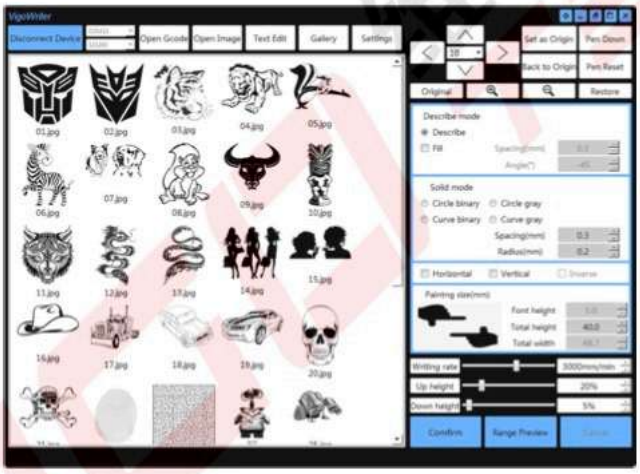
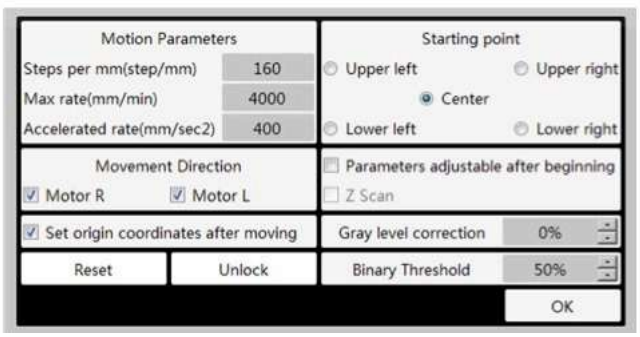
Text Edit: Click the **Text Edit** to open the text edit box which is located in the display are program. The text can be entered in the text edit box and it provides basic font settings such **Italic and Underline**. The actual height of the word can be modified in **Font Height** box in th **Size** panel at the right side. The **Size** above the edit area can only change the font displayed in box.

7. Gallery



Gallery: Click **Gallery** to display the pictures in the folder of **Program directory\Galle** picture can be inputted into the program for painting by double click. Users can call their pictures like *.jpg and *.bmp quickly by putting them into the folder of **Program directory \(** And users may click **Gallery** again to update display without close and restart the progra putting new pictures into the gallery.

8. Advanced Settings



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The advanced settings are located in the display area of the program , and click the uppe
Settings to open it.

Motion parameters: Users can set the maximum rate and accelerated rate of the d
general, please use the default value.

Movement Direction: This will set the coordinate directions of X and Y axis. **Motor R** and
are both checked by default and the painting will right at the users. If none of these is chec
painting will rotate 180 degrees. If the painting is required to rotate positive or negative 90
one of **Motor R** and **Motor L** need to be checked and one not, meanwhile please exchange
motor wines on the main control board. In general, please use the default setting.

Starting position: This will set the position of the device' s original coordinates relativ
actual painting. The default is in the middle of the painting.

Parameters adjustable after beginning: When checked, users can adjust the writing
height of pen up and down in writing, and **Writing rate, Up height** and **Down height** are ava
the lower right corner of the program in writing.

Z scan: Fold line scanning is available when in solid mode, default scanning is line by line.

Set origin coordinates after moving: The program automatically sets the original positi
the device stopped in a new position by manual control if checked; otherwise the original po
still the location before moving.

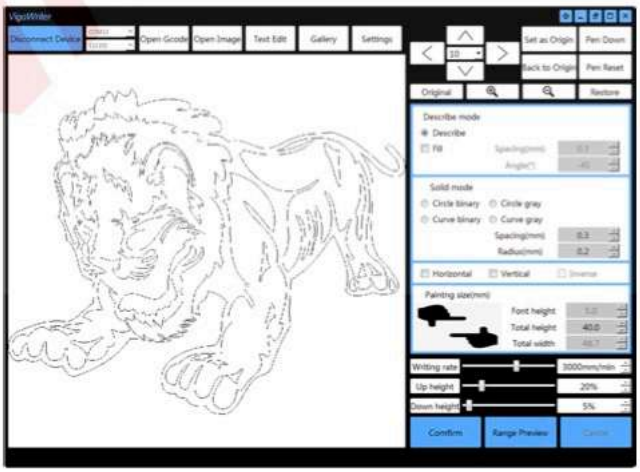
Gray level correction: When coding the gray image, the colures close to white is
according to the percentage, and the sharpness of the actual painting can be increased.

Reset and Unlock: In some cases, wrong code may cause the device to work abnormally
time, the device is in the state of protection. Please restart all the hardware and software devi
click the **Unlock** and **Reset** to restore the device.

OK: If **OK** is clicked, the last interface will be returned.

9. Writing control

The writing control buttons are located at the lower right corner of the program.



Range Preview: Users can preview the range of the painting selected by click **Range**
When in preview, the button **Range Preview** is changed to **Stop Preview** and users should
button to stop preview. Please note that there may be a small time' s delay for completely st

button to stop preview. Please note that there may be a small time's delay for completely st

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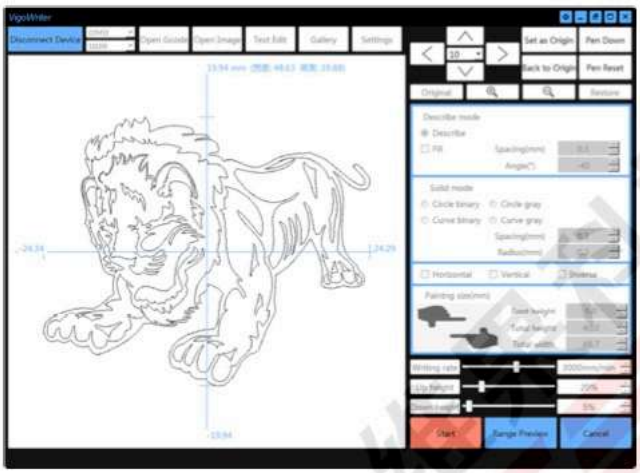
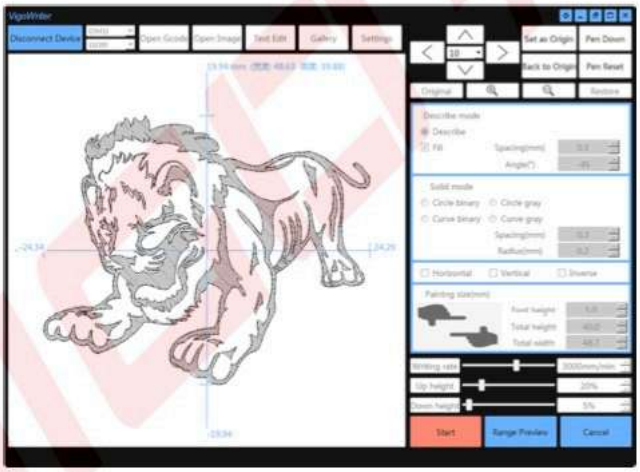
click the button, and users should wait for the device stops completely before other operation

Confirm: When **Confirm** is clicked, the main part of the program will display the actual p and the button **Confirm** is changed to **Start** while the **Preview** and **Cancel** are available. If **Para adjustable after beginning** is not clicked, there will be the **Device Control** buttons, **Start**, **Pau** and **Disconnect Device** available yet. Users may preview the range of the painting by click **Preview**, start writing by click **Start** or return the image selecting state by click **Cancel**.

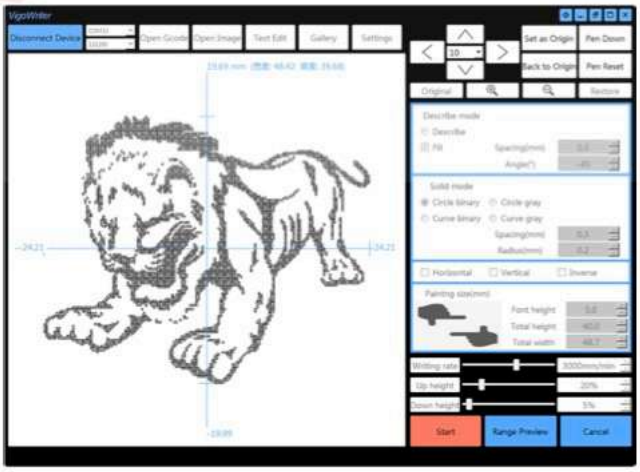
The followings are examples of various writing modes.



Describe mode



Describe and Fill mode



Circle and Black-White mode

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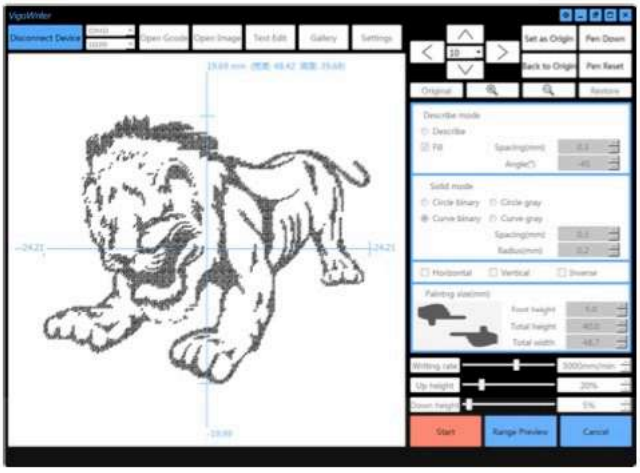
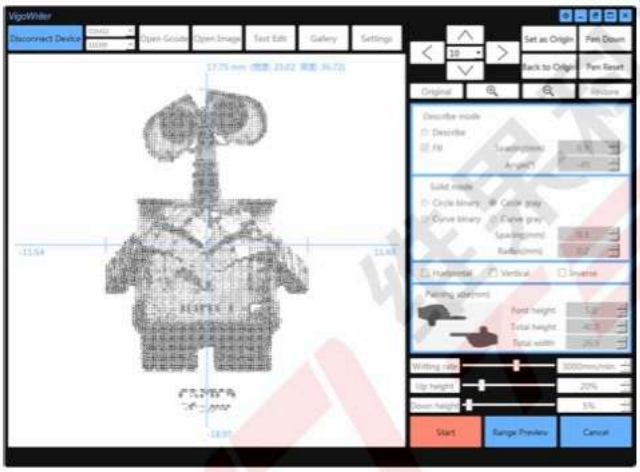
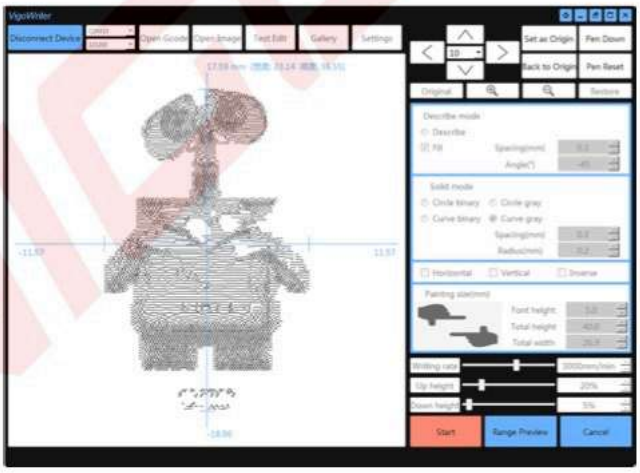


Curve and Black-White mode



Circle and Gray mode



Curve and Gray mode

The following is the interface after Start is clicked.

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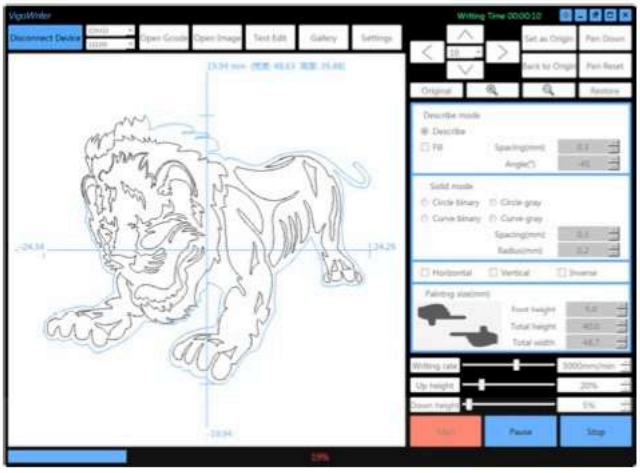
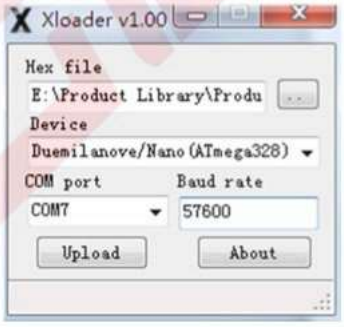


Start: The writing will start by clicking **Start**. The status bar will show the overall writing p and the writing time will be showed on the title bar. When it started, **Start** is not available whil **Stop** and **Disconnect Device** are available. The painting show as blue with the completed pa the rest parts with are not finished show as gray. If **Parameters adjustable after beginning** is the **Writing rate**, **Up height** and **Down height** will be available when writing.

10. Firmware

Normally, the control board has a good firmware already. Users can use it normally acco the instructions above after connecting to the device.

In some cases, if users need to upload firmware, please use the software **XLoader** to up firmware to the control board. Users may turn off VigoWriter, select firmware file *.hex, sel ATmega328, select COM port, select Baudrate (usually 115200), and click upload. The RX, TX l control board will continue to flicker until **XLoader** shows the upload is successful.



11. Update

Our software will be updated continuously.

Please visit our website: www.vigotec.cn for more new products and software.

Warning: **If use the Laser Kit!**

Strictly forbidden for laser irradiation of the eyes!

Strictly forbidden for watching laser without wearing protective glasses!

Strictly prohibit the use of children!

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